

## Upstream

### **FMC Receives Subsea Equipment Orders for Anadarko's Heidelberg Field**

FMC Technologies, Inc. has received orders from Anadarko for subsea equipment for its Heidelberg field. The Heidelberg field is located in the Green Canyon section of the Gulf of Mexico in 5,310 feet (1,618 meters) of water. FMC Technologies' scope of supply includes five enhanced horizontal subsea trees, tree mounted controls, two manifolds and other associated tooling and equipment.

### **Technip Awarded Julia Subsea Contract**

Technip was awarded a substantial lump-sum contract by Exxon Mobil for the development of the Julia field. This field is located in the Walker Ridge area of the Gulf of Mexico, at a water depth of approximately 2,100 meters (7,200 ft). The contract covers the project management, engineering, fabrication, installation and pre-commissioning of more than 48 km of 10.75" outer diameter insulated flowlines, steel catenary risers and flowline end terminations. Technip's operating center in Houston, Texas will perform the overall project management, with detailed flowline design being completed by its subsidiary Genesis. The flowlines and risers will be welded at their spoolbase in Mobile, Alabama. The offshore installation is expected to be completed in 2015 by the Deep Blue, one of Technip's deepwater pipelay vessels. In a separate contract, 2H Offshore was contracted by Exxon Mobil to conduct the detailed design of two 10" production steel catenary risers for the Julia Phase 1 development. The Julia development will be a subsea tieback to a moored semi-submersible.

### **Noble Announces Gunflint Appraisal Results**

Noble Energy announced that the second appraisal well at Gunflint successfully encountered 109 feet of net pay within the primary reservoir targets. Results have confirmed an estimated gross resource range of 65 to 90 MMbbl of oil equivalent in the primary structure. The Mississippi Canyon 992 #1 well, located one mile west of the original discovery well, was drilled to a total depth of approximately 32,800 feet in a water depth of 6,100 feet. Commercial hydrocarbons were not encountered in the deeper exploration objective. Additional exploration potential remains in an adjacent three-way structure to the north, a candidate for future exploration following development of the confirmed resources. The appraisal program at Gunflint solidifies plans for a subsea tieback development, with sanction planned for later this year. Along with their Big Bend discovery, Noble now has two major projects in the deepwater GoM targeting first production at the end of 2015. Noble Energy operates Gunflint with a 31.14% interest. Other partners in the project are Ecopetrol America Inc.(31.5%), Marathon(18.23%) and Samson (19.1%).

### **FMC Awarded Subsea Equipment Contracts from Shell**

FMC Technologies, Inc. has received an order from Shell for the supply of subsea equipment to support the Stones field development. Stones is an ultra deepwater project located in the Walker Ridge area of the Gulf of Mexico, approximately 200 miles (322 kilometers) off the Louisiana coast in approximately 9,600 feet (2,926 meters) of water. FMC Technologies' scope of supply includes eight subsea trees, a subsea manifold, topside and subsea controls and associated equipment. FMC also received an order from Shell for subsea equipment for its portfolio of projects in the Gulf of Mexico. The scope of supply includes 12 enhanced vertical deepwater trees and controls.

### **Wood Group PSN Signs O&M Contract with Hess**

Wood Group will deliver operations & maintenance services to Hess Corporation's Baldpate production platform in the deepwater Gulf of Mexico, under a new five-year contract. WGPSN will also provide these services to Hess for the Tubular Bells and Stampede deepwater facilities in the Mississippi Canyon and Green Canyon regions of the Gulf of Mexico when they come on stream in the future. The contract will lead to the creation of up to 100 new jobs in the region. WGPSN will develop a computerized maintenance management system (CMMS) to track the maintenance and repair of rotating equipment and maintenance parts. They will also manage the inventory of engineering parts.

## **GE Signs \$84M Agreement with Pemex for Deepwater Exploration Projects**

GE Oil & Gas has signed an \$84 million agreement with PEMEX Exploration and Production to supply and to install subsea wellheads for PEMEX's deepwater and ultra-deepwater drilling projects in the Gulf of Mexico. For the latest PEMEX project, GE will supply SMS800 and DWHC 700 high capacity wellheads.

## **Husky's Atlantic Region Development Plan Approved**

Husky Energy has received regulatory approval for a development plan amendment for the South White Rose field, the third satellite extension at the White Rose field in the Atlantic Region. The original South White Rose field development plan was approved in 2007, and the amendment provides for gas injection which will contribute to enhanced oil production and provide additional storage for recovered gas. Husky is targeting approximately 20 MMbbl of oil (Husky W.I.) from South White Rose, and the amendment allows them to access an additional estimated 6.5 MMbbl of incremental production (Husky W.I.) from the South Avalon Terrace on the southern tip of the main White Rose field. South White Rose, located approximately 350 km offshore Newfoundland and Labrador, will be developed via subsea tie-back to the SeaRose FPSO vessel. Development is well underway with gas injection anticipated to begin in 2013 and first oil production planned for 2014.

## **Statoil Makes Oil Find Offshore Newfoundland**

Statoil has made a discovery of light, high-quality oil in the Flemish Pass Basin, offshore Newfoundland. Oil was encountered while drilling the Harpoon prospect (EL 1112), located approximately 500 km north-east of St. John's, Newfoundland and Labrador, Canada. The Harpoon discovery was drilled by the semi-submersible rig West Aquarius, in approximately 1,100 metres of water. Harpoon is located about 10 km southeast of Statoil's Mizzen discovery. The Mizzen discovery is estimated to hold between 100-200 MMbbl of oil. As part of its 2013 three-well exploration program offshore Newfoundland, Statoil is currently drilling its Federation prospect, located in the Jeanne d'Arc Basin. The company will then return later this year to the Flemish Pass Basin to drill the Bay du Nord prospect, which is located south-west of the Harpoon and Mizzen discoveries. Statoil is the operator of Harpoon with a 65% interest. Husky Energy is a 35% partner.

## **Midstream**

### **Kinder Morgan to Expand New BOSTCO Oil Terminal**

Kinder Morgan Energy Partners announced a 900,000-barrel expansion at the 185-acre Battleground Oil Specialty Terminal Company, LLC (BOSTCO) currently under construction on the Houston Ship Channel. The approximately \$54 million expansion is supported by a long-term leased storage and handling services contract with Morgan Stanley Capital Group Inc. and includes six, 150,000-barrel, ultra-low sulphur diesel tanks, additional pipeline and deepwater vessel dock access, and high-speed loading at a rate of 30,000 barrels per hour. Work on the 900,000-barrel expansion is scheduled to start in the second quarter of 2013, with commercial operations expected to begin in the fourth quarter of 2014.

### **Koch Pipeline Launches Open Season on Proposed Bakken Pipeline Project**

Koch Pipeline Company, L.P. will conduct Phase I of an open season for the Dakota Express Pipeline, a proposed pipeline to transport Bakken crude oil from western North Dakota to Hartford, Illinois and Patoka, Illinois. Koch Pipeline also intends to explore a connection at Patoka to the Eastern Gulf Crude Access Pipeline, which would be capable of delivering Bakken crude oil to eastern US Gulf Coast refineries. The pipeline would be in service in 2016 with an expected initial capacity of approximately 250,000 bpd. Dakota Express would include some new construction while also utilizing Koch's existing Wood River Pipeline and Hartford terminal. Phase 1 of the open season will begin July 1 and last 45 days.



## **Williams and Boardwalk Formalize Key JV Agreement Related to Bluegrass Project**

Williams and Boardwalk Pipeline Partners, LP have executed a joint venture agreement to continue the development process for the Bluegrass Pipeline. Phase one of the proposed pipeline would provide producers with 200,000 bpd of mixed NGLs take-away capacity in Ohio, West Virginia and Pennsylvania. Phase two would increase capacity to 400,000 bpd to meet market demand, primarily by adding additional liquids pumping capacity. The pipeline would deliver mixed NGLs from these producing areas to proposed new fractionation and storage facilities, which would have connectivity to petrochemical facilities and product pipelines along the coasts of Louisiana and Texas. The joint venture would also include constructing a new large-scale fractionation plant and expanding natural gas liquids storage facilities in Louisiana and constructing a new pipeline connecting these facilities to the converted Texas Gas line in the Eunice, La. area. Williams and Boardwalk are also exploring development of a new export liquefied petroleum gas terminal and related facilities on the Gulf Coast to provide customers access to international markets. They expect that the planned project could be placed into service in late 2015.

## **Gulf Interstate Engineering Awarded Energia Mayakan Pipeline**

Gulf Interstate Engineering Company, in association with Arendal, has been selected by GDF Suez to provide project management, engineering, design, procurement support, construction support and commissioning services for the Energia Mayakan Pipeline Expansion Project. The project consists of a 30-inch pipeline capable of transporting natural gas using API-5L line pipe, approximately 75.9-km in length, from the Centro Procesador de Gas Nuevo PEMEX in the Municipality of Centro, State of Tabasco, Mexico to interconnect with Mayakan's existing pipeline system at Energia Mayakan's Compressor Station #1 in the Municipality of Macuspana, State of Tabasco, Mexico. The project also includes an interconnection facility, delivery and receipt meter stations.

## **Wood Group Mustang to Provide Engineering & Field Services for Dow Pipelines**

Wood Group Mustang has been awarded a contract by Dow Chemical to provide services for construction of approximately 140 miles of ethane, ethylene, propane and propylene pipelines, associated interconnections and station modifications between Dow Texas Operations in Freeport, Texas and facilities at Mt. Belvieu, Texas. The pipelines and station upgrades are part of construction for Dow's new ethylene unit. Wood Group Mustang will provide engineering, field services and construction management on the project through its Houston and Angleton, Texas offices. Following completion of front-end loading (FEL) in 2012, detailed design for the project began in February 2013. Completion is scheduled for late 2016.

## **Enterprise Announces Open Season for Propane Service on ATEX Express Pipeline**

Enterprise Products Partners L.P. announced a binding open season to determine shipper support for transporting propane to Mont Belvieu, Texas on the partnership's Appalachia-to-Texas ("ATEX") pipeline. Currently the ATEX pipeline has long-term contracts in place for ethane transportation to Mont Belvieu. To accommodate shipments of propane, Enterprise would loop a portion of ATEX, add pumping capacity as needed and install additional facilities for the delivery of specification ethane and propane at destination points. The final scope of the project will be determined by the aggregate volume of commitments received during the open season, but propane transportation service is anticipated to commence in the first quarter of 2015.

## **Energy Transfer Commences Open Season for the Eastern Gulf Crude Access Pipeline**

Energy Transfer commenced a binding open season for crude oil transportation service on the previously announced pipeline project from the crude oil terminalling hub near Patoka, Illinois (Patoka Hub) to the Eastern Gulf Coast refinery market. Subject to the outcome of the binding open season and all necessary regulatory authorizations, the Eastern Gulf Crude Access Project (EGCAP) will be capable of transporting up to 420,000 bpd of crude oil from the Patoka Hub directly to refinery markets along the Mississippi River and the Louisiana Gulf Coast. The binding open season for EGCAP is ongoing through July 19.



## **Enbridge Holding Second Open Season for Southern Access Extension**

Enbridge is holding a second binding open season to solicit additional commitments from shippers for capacity on the proposed pipeline, which will transport crude from Pontiac to Patoka, Illinois. The 165-mile, 24" pipeline is anticipated to be online Q2 2015. The diameter of the pipeline could be increased, depending on the results of the open season, which ends July 19.

## **Kinder Morgan to Expand Eagle Ford Crude Condensate Pipeline**

Kinder Morgan Energy Partners, L.P. will invest approximately \$107 million to expand its Kinder Morgan Crude and Condensate pipeline system (KMCC) deeper into the Eagle Ford Shale play in Karnes County, Texas. The expansion, supported by a long-term contract with ConocoPhillips, will extend the 178-mile pipeline 31 miles from the KMCC DeWitt Station in DeWitt County, Texas, to ConocoPhillips' Central Delivery Facility near Helena in Karnes County. Kinder Morgan will also build receipt tanks and a truck unloading facility adjacent to ConocoPhillips' Helena Central Delivery Facility. Kinder Morgan expects to begin construction on the project in July of this year. Project completion is scheduled for Q3 2014.

## **Gulf Interstate Engineering Awarded Utica Condensate Gathering Pipeline Project**

Gulf Interstate Engineering Company is providing engineering and design services on Marathon Petroleum Company, L.P.'s Utica Condensate Gathering Pipeline Project. Gulf is developing the conceptual engineering design for the approximate 40-45 mile condensate trunk line system and the associated meter stations and pump stations in Ohio. Gulf's scope includes a desktop route analysis, preliminary route maps, hydraulic analysis, pipeline and facility design, cost estimate, design basis and preliminary schedule for conceptual design.

## **Crosstex Energy Begins Open Season for NGL Pipeline System Project**

Crosstex NGL Pipeline, L.P. announced the start of a binding open season for volume commitments for interstate common carrier transportation service on a new natural gas liquids (NGLs) pipeline system (the Crosstex NGL Pipeline) that will transport unfractionated NGLs produced in the Permian Basin, Barnett Shale, Eagle Ford Shale and other areas from the Mont Belvieu, Texas area to NGL fractionation facilities in Acadia and Ascension Parishes, Louisiana for approximately one year and to NGL fractionation facilities in Acadia and Iberville Parishes, Louisiana thereafter. This common carrier pipeline is expected to have a preliminary design capacity to Acadia Parish, Louisiana of approximately 77,000 barrels per day for the first year and is expected to reach up to approximately 132,000 barrels per day thereafter. The open season will close on June 21.

## **Wood Group Mustang Providing Survey & Engineering Services for Williams Pipeline Projects**

Wood Group Mustang has been selected by Williams to provide survey, engineering, design and program management for its Purity Pipeline projects. The projects entail the conversion and construction of more than 300 miles of natural gas liquids and olefins pipelines. The new and converted pipelines will be used to transport natural gas liquids (NGLs) and olefins to facilities along the Texas Gulf Coast. The project is scheduled to be completed during third quarter 2014.

## **Southern Star Announced Straight Blackwell Expansion Project**

Southern Star announced the expansion of firm transportation capacity on its Straight Blackwell line segment in western Oklahoma. This expansion announcement follows a successful binding Open Season last fall, which resulted in two conforming bids. Southern Star has now successfully executed precedent agreements with two shippers for a total of 225,000 Dth/d of firm transportation service. This proposed expansion will serve the growing western Oklahoma production corridor including the Granite Wash, Cleveland/Tonkawa and Mississippi Lime areas with access to markets in Oklahoma, Kansas and Missouri as well as access to other intrastate and interstate pipelines. The firm transportation agreements and the in-service date for the facilities will be effective October 1, 2014.





## **Pacific Northwest LNG Awards Three FEED Contracts for Prince Rupert Facility**

Pacific Northwest LNG Ltd has awarded competitive contracts for FEED and early detailed engineering services of its proposed facility to three engineering contractors – Bechtel, a JV of KBR/JGC, and a JV of Technip/Samsung Engineering/China Huanqui. The FEED and EPCC bid is expected to be complete by August 2014. At the end of 2014, the project owners, Petronas and Japex, plan to make the final investment decision. The FEED covers the two-train gas liquefaction plant with a yearly capacity of 12 million tons, process units, LNG storage tanks, utilities and power generation, and marine infrastructure. The two-train facility will be located on Lelu Island within the District of Port Edward on land administered by the Prince Rupert Port Authority. The plant will process shale gas produced from British Columbia's North Montney region into LNG that is suitable for export.

## **Cheniere Commences Construction on Sabine Pass Trains 3 & 4**

The Board of Directors of Cheniere Energy Partners, L.P. has made a positive final investment decision for the development and construction of Trains 3 and 4 of the Sabine Pass Liquefaction Project being developed adjacent to the Sabine Pass LNG terminal. Cheniere has issued a full notice to proceed with construction of Trains 3 and 4 to Bechtel. Construction on Trains 1 and 2 commenced last August and is approximately 30% complete. Construction on Trains 3 and 4 will start immediately. First LNG is expected to be delivered by late 2015. Additionally, Cheniere expects to complete all of the required resource reports to file an application with the FERC by September 2013 for Trains 5 and 6.

## **Enterprise to Develop Refined Products Export Facilities on Texas Gulf Coast**

Enterprise Products Partners L.P. is developing two refined products export facilities to meet the growing demand for additional refined products export capability on the United States Gulf Coast. By utilizing Enterprise's existing Southern Complex of refined products pipeline, storage and terminal facilities in southeast Texas, Enterprise will provide customers with significantly improved access to its marine facilities at its ports in Beaumont, Texas and on the Houston Ship Channel. Export service at the Beaumont marine terminal will initially handle Panamax size vessels and is expected to begin service in the first quarter of 2014, followed in mid-2014 by its expanded marine terminal on the Houston Ship Channel that will be initially sized to handle up to Aframax class vessels.

## **Gulf Interstate Engineering Awarded Major EPCM Contract for Wright Interconnect Project**

Gulf Interstate Engineering Company is providing engineering, procurement and construction management services on Iroquois Gas Transmission System, L.P.'s Wright Interconnect Project. The project scope involves the addition of a compression facility that includes the associated inlet gas filtering, exit cooling, gas mixing, odorization, metering, flow control, and modification of existing station piping to allow limited back-up between the new and existing facility. These station modifications will expand the facilities at the Wright Compressor Station to move an additional 650 Mdth/day of natural gas from the proposed Constitution Gas Pipeline to the Iroquois/Tennessee Gas Pipeline system. The current anticipated in-service date is March 2015.

## **WGL Holdings Announces Investment in Constitution Pipeline**

WGL Holdings, Inc, through its subsidiary, Capitol Energy Ventures Corp., announced its equity investment in Constitution Pipeline Company, LLC. The fully subscribed natural gas pipeline project will transport natural gas from the Marcellus region in northern Pennsylvania to major northeastern markets. Construction of the \$683M pipeline is expected to begin in the third quarter 2014. The project is scheduled to be in service by March 2015, and transport at least 650,000 dekatherms of natural gas per day. An affiliate of Williams Partners will construct, operate and maintain the new 30-inch, 122-mile long transmission pipeline. CEV will hold a 10% share in the pipeline venture. Williams Partners will hold a 41% ownership share, other partners include Cabot Oil and Gas (25%) and Piedmont Natural Gas (24%). In June, Constitution Pipeline filed a formal certificate application with FERC.



## Downstream

### **Linde to Invest More than \$200 Million in Texas**

Linde North America will invest more than \$200 million to build a large, state-of-the art air separation unit (ASU), a new gasification train and supporting equipment and facilities in La Porte, Texas. The state-of-the art plants are scheduled to come on-stream in the first quarter of 2015. The ASU will be the largest operated by Linde in the U.S. and the addition of a new gasification plant will create the world's largest gas-based partial oxidation complex for the production of syngas products for petrochemicals. The air gases (oxygen and nitrogen) produced by the new ASU will supply the gasification assets at the La Porte site. The new gasifier will convert natural gas into syngas and constituent products such as carbon monoxide, hydrogen and carbon dioxide which are used to produce methanol, downstream chemicals and cleaner transportation fuels. The syngas products will be served by pipeline to a key customer.

### **ChevronPhillips Chemical Announces Expansion of Ethylene Production at Sweeny Complex**

Chevron Phillips Chemical Company will expand its ethylene production by 200 million pounds by adding a tenth furnace to ethylene unit 33 at its Sweeny complex in Old Ocean, Texas. The Company recently received consent to begin construction from the Texas Commission on Environmental Quality (TCEQ). The new furnace will achieve lower emissions and incorporate Best Available Control Technology (BACT). Construction is targeted to commence within the next quarter, with an anticipated start-up in 2014.

### **Enterprise and Western Gas Partner on Two NGL Fractionation Trains**

Enterprise Products Partners L.P. has entered into a joint venture with Western Gas Partners, LP to own natural gas liquid ("NGL") fractionation trains 7 and 8, which are currently under construction at Enterprise's complex in Mont Belvieu, Texas. Western Gas has acquired a 25% minority ownership interest in the joint venture, and Enterprise retains the remaining 75% ownership interest. Trains 7 and 8 have a design capacity to fractionate approximately 170,000 bpd of NGLs. These trains are expected to begin commercial operations in the fourth quarter of 2013.

### **WorleyParsons Awarded EPCM for Clear Lake Methanol Project**

WorleyParsons announced the signing of an EPCM contract with Celanese Corporation for the development of their Methanol project in Clear Lake, Texas. The estimated revenue to WorleyParsons from this EPCM Agreement is US\$86 million. The methanol unit will utilize abundant natural gas in the U.S. Gulf Coast region as a feedstock and will be located at Celanese's existing Clear Lake facility. Production is scheduled to commence in mid-2015.

### **Western Gas to Build Second Cryogenic Processing Train at Lancaster Plant**

Western Gas Partners announced that it would begin the construction of a second cryogenic processing train at its Lancaster plant in the DJ Basin in 2013. Lancaster II is expected to have a capacity of 300 MMcf/d with throughput of 200 MMcf/d guaranteed by a subsidiary of Anadarko. The company anticipates the project will cost approximately \$165 million. The new train is projected to commence operations in the first quarter of 2015. Western Gas has already received air permits for Lancaster II from the Colorado Department of Public Health and Environment, and orders for major processing components have been placed.

### **Kentz Secures Commissioning Contract Award in Alaska**

Kentz Corporation's engineering and construction group announced a contract award in Alaska's North Slope, for the Point Thomson gas cycling and condensate production plant. The award, through Kentz USA, will be running for the next three years under the Technical Support Services (TSS) business unit. Working with local partner, Jago Contracting Management, Kentz will be undertaking commissioning work in arctic conditions and the project scope will include the mobilisation of engineering employees into California, Washington, alongside personnel into Korea for the fabrication requirement. Kentz personnel will then follow the project to Alaska to participate in commissioning activities on site.



## **Imperial Oil to Convert Dartmouth Refinery to Terminal**

Following a comprehensive evaluation of alternatives, Imperial Oil will continue to serve east coast Canadian markets by converting its Dartmouth refinery into a terminal operation. The initial start-up of the converted facilities is planned for later in 2013 depending on progress with facility modifications in the coming months. Decommissioning surplus facilities will be a multi-year process.

## **Power**

### **ETT to Build Laredo-to-Rio Grande Valley Transmission Line**

The Public Utility Commission of Texas approved an application by Electric Transmission Texas, LLC for a Certificate of Convenience and Necessity (CCN) to build a 345-kV transmission line from the Laredo area into the Rio Grande Valley. The transmission project includes construction of approximately 156 miles of 345-kV transmission lines that will connect ETT's Lobo Substation near Laredo with substations north of Edinburg and will add two new substations along the line route. The cost of the project is estimated at approximately \$318 million. ETT now will begin right-of-way acquisition and detailed engineering for the project, with actual construction anticipated to begin in 2014. Completion is expected in 2016.

### **Air Liquide to Re-Invest in Cogen Unit**

Air Liquide has signed a new long term contract with LyondellBasell in the U.S. to provide steam, power, air gases and water to three LyondellBasell sites in the Bayport Industrial District in Pasadena, Texas. Under this new agreement, Air Liquide will re-invest in a state-of-the-art, energy efficient cogeneration unit, increasing its capacity and extending its life by more than 20 years. The facility will have a full capacity of 300 megawatts of electricity and more than 1,300 tonnes of steam per hour. Air Liquide is also investing in Air Separation Unit upgrading and capacity expansion and additional infrastructure at the facility. The overall investment for this facility will be approximately €180 million (\$230 million), and was accounted for as a Q1 2013 investment decision.

### **Bechtel Awarded EPC Contract for Nuclear Project**

Bechtel has been awarded a contract to provide EPC services for replacing three steam generators at Unit 2 of FirstEnergy Nuclear Operating Company's Beaver Valley Nuclear Power Station in Shippingport, Pennsylvania. Engineering work on the project will begin immediately with full site mobilization in late 2016 and generator replacement in March 2017.

### **GE Supplying Waukesha Gas Engines to Power South Texas Cryogenic NGL Processing Plant**

GE is supplying three of its ecomagination qualified Waukesha 16-V 275GL+ gas engines to Howard Midstream Energy Partners, LLC to drive compression equipment at its new Reveille cryogenic natural gas processing plant in Webb County, north of Laredo, Texas. The new cryogenic facility will be capable of processing up to 200 MMcf/d and serve primarily producer and midstream business customers operating in the Eagle Ford, Olmos and Escondido gas fields in South Texas. Construction of the Reveille gas plant began in April 2013, with startup of the facility scheduled for January 2014.

### **Minnesota Power to Reduce Emissions at Boswell Unit 4**

Minnesota Power was granted permission by the Minnesota Public Utilities Commission to move forward with a \$350M environmental retrofit of coal-fired Boswell Unit 4 that will reduce mercury emissions by 90%. The emissions controls will be installed before 2016. Construction is planned to begin this summer, pending approval of an air permit from the MPCA.

## Renewables

### **Canadian Solar Signs C\$310M EPC Agreement for the Construction of a 130MW Plant in Ontario**

Canadian Solar Solutions Inc., has entered into an EPC agreement with Grand Renewable Solar LP, a solar energy project developed by Samsung Renewable Energy Inc. for the construction of a 130 MW utility-scale solar power plant. This EPC agreement is expected to generate revenue of approximately C\$310 million for Canadian Solar. Construction of the solar power plant will begin in the third quarter of 2013, with the facilities expected to be fully operational in 2015. The installation will include approximately 440,000 Canadian Solar CS6X high-performance modules.

### **US Dept of Interior Approves SolarReserve's 100MW Arizona Solar Power Project**

The Quartzite Solar Energy Project in La Paz County has received governmental approval from the Interior Department. With this authorization, SolarReserve is proceeding with development of the project, which is on BLM-managed land. Quartzite will be utilizing SolarReserve's concentrated solar power (CSP) technology with integrated storage. Construction is slated to begin in 2014, once a Power Purchase Agreement has been contracted and financing of the project is complete.

### **Vestas Secures 309MW Service Contract Renewal in Wisconsin**

Vestas has secured a four-year service and maintenance renewal from We Energies for a combined 180 wind turbines at three wind power plants in Wisconsin, USA. The renewal contract, which begins near the end of 2013, covers 309 MW worth of wind turbines at the Glacier Hills, Blue Sky Green Field and Byron sites. The service contract extension includes Vestas' Active Output Management (AOM) 4000 maintenance program which guarantees turbine availability. This service option includes the VestasOnline® surveillance system to remotely control and monitor the turbines as well as predict potential maintenance issues.

### **EDPR Secures PPA for Indiana Wind Farm**

EDP Renováveis, SA signed a 20-year Power Purchase Agreement with Indiana Michigan Power Company, a fully owned subsidiary of American Electric Power, to sell the renewable energy produced from its 200 MW Headwaters wind farm project located in the Indiana state, expected to be installed in 2014.

### **Vestas Receives 155MW Order for IEnova Wind Farm in Mexico**

Vestas has received a 155.1 MW order for Mexico. The project consists of 47 V112-3.3 MW – one of Vestas' newly launched 3 MW product variants - which will be installed in the state of Baja California, Mexico. Turbines delivery will start in the third quarter of 2014, and the wind power plant is expected to be commissioned in the first quarter of 2015. The contract for the Energía Sierra Juárez wind power plant comprises delivery and commissioning of the turbines, a VestasOnline® Business SCADA system as well as a five-year Active Management Output (AOM) 5000 service agreement. The order has been placed by Energía Sierra Juárez, a unit of IEnova (formerly Sempra Mexico).